

## CLAIMS

1. A manikin having a removable piece attached thereto by a magnetic system comprising:
  - (a) a magnetic assembly having a depth-of-pull sufficient to cause the removable piece to begin to move towards the manikin at a distance from the manikin of more than one-quarter of an inch, said magnetic assembly being positioned on said manikin or said removable piece; and
  - (b) an attracted material positioned on the other of said manikin or said removable piece so as to mate with said magnetic assembly, said attracted material presenting a planar oval face;wherein said magnetic assembly is a cup magnetic assembly comprising a cup serving as a pole piece, said cup having at least one magnet therein.
2. The manikin of claim 1 wherein the cup is a circular cup.
3. The manikin of claim 1 wherein the attracted material comprises a central portion of a plate and flange assembly, said central portion connected to an outer portion, and said central portion being elevated with respect to said outer portion when the attracted material is positioned on said manikin or said removable piece.
4. The manikin of claim 3 wherein one or more depressions are formed in the outer portion of said plate and flange assembly.
5. The manikin of claim 3 wherein a plurality of holes are formed at least in part in the side of the central portion of said plate and flange assembly.
6. The manikin of claim 3 wherein said magnetic system comprises a mating pin on one of said magnetic assembly or said oval face, and a mating hole positioned to mate with said mating pin on the other of said magnetic assembly or said oval face.

7. The manikin of claim 6 wherein said magnetic system further comprises at least one index pin on one of said magnetic assembly or said oval face, and an index hole positioned to mate with said index pin on the other of said magnetic assembly or said oval face.
8. A manikin having a removable piece attached thereto by a magnetic system comprising:
  - (a) a magnetic assembly having a depth-of-pull sufficient to cause the removable piece to begin to move towards the manikin at a distance from the manikin of more than one-quarter of an inch, said magnetic assembly being positioned on said manikin or said removable piece; said magnetic assembly being a cup magnetic assembly comprising a cup serving as a pole piece, said cup having at least one magnet therein; and
  - (b) an attracted material positioned on the other of said manikin or said removable piece so as to mate with said magnetic assembly, said attracted material comprising a disc presenting a circular face

wherein said magnetic system comprises a mating pin on one of said magnetic assembly or said circular face, and a mating hole positioned to mate with said mating pin on the other of said assembly or said circular face, where the mating pin or hole on said magnetic assembly is located outside the cup.

9. The removable piece of claim 8 wherein the magnetic assembly has a depth of pull of at least 160 gauss at a distance of one inch.
10. The removable piece of claim 8 wherein the magnetic assembly has a depth of pull of at least 170 gauss at a distance of at least one inch.
11. The removable piece of claim 8 wherein the magnetic assembly has a depth of pull of at least 200 gauss at a distance of one inch.

12. A removable piece for a manikin comprising a magnetic assembly having a depth-of-pull sufficient to cause the removable piece to begin to move towards the manikin at a distance from the manikin of more than one-quarter of an inch positioned for mating with an attracted material positioned on said manikin,

wherein said magnetic assembly is a cup magnetic assembly comprising a cup serving as a pole piece, said cup having at least one magnet therein.

13. A method of assembling a manikin comprising attaching a removable piece of claim 12 to a manikin wherein said manikin comprises an attracted material positioned to mate with the magnetic assembly on said manikin.
14. The method of claim 13, wherein the removable piece is attached by placing the magnetic assembly in approximate alignment with the attracted material and spaced apart therefrom, and allowing magnetic force to complete the mating.
15. The method of claim 13 wherein said manikin and said removable piece are placed at least about one half inch apart.
16. The method of claim 13 wherein said manikin and said removable piece are placed at least about two-thirds inch apart.
17. The method of claim 13 wherein said manikin and said removable piece are placed at least about three-fourths inch apart.
18. The method of claim 13 wherein said manikin and said removable piece are placed at least about one inch apart.